CONTENTS

Ch.1- Features

Ch.2 - Limitations

Ch.3 - Installation

Ch.4 - Electrical connection

Ch.5 - Starting the unit

Ch.6 - Maintenance and trouble shooting

Warnings for the safety of individuals and things.
Please pay careful attention to the following signs and indications.

DANGER
Electric shock risk

Warns that the failure to follow directions may cause electric shock.

DANGER

Warns that failure to follow directions could cause serious risk to persons or things.

WARNING

Warns that failure to follow directions could damage the pump or installation.

WARNING: ***Before installing this pump read this manual carefully. Any damage caused by failure to observe any directions in this manual will not be covered by warranty.***

CH. 1 FEATURES

PRATIKA® electropumps are suitable for pumping clear water that contains no dissolved gases.
The electropumps in this series are multiphase centrifugal type and submergible.
The parts that come into contact with the water are all suitable for use with water for cooking. Each electropump is carefully tested and packed.
Please ensure that the electropump has not been damaged during transport; if this occurs please phone the dealer, within 8 days from purchase date.

CH. 2 LIMITATIONS

WARNING

Electropump cannot be used to move inflammable or dangerous liquids.

WARNING

Ensure electropump never runs dry.

MAX. TEMPERATURE OF LIQUID.....	40°C continuous operation
MAX.ON/OFF CYCLES/HOUR.....	30 equally spaced
MAX. IMMERSION DEPTH.....	10 m
MAXIMUM DIMENSION OF SOLID OBJECTS PUMPED.....	1,5 mm

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The linear measures in chart are in millimetres

Please refer to fig.1

TYPE	MIN. PRIMING LEVEL	MIN. DRAINAGE LEVEL	START LEVEL	STOP LEVEL	WEIGHT Kg.
See Fig.	**A**	**B**	**C**	**D**	
PRATIKA®	60 mm	50 mm	490 mm	260 mm	9

If the pump is equipped with an **H05** power supply cable it is not suitable for use with pools, ponds or similar.

If the pump is equipped with an **H07** power supply cable it is only suitable for use with pools if no one is in the water.

CH. 3 INSTALLATION

DANGER
Electric shock risk

When installing, please ensure pump is disconnected from electrical supply.

WARNING

Make sure that float switch turns off pump, when at min. level of liquid

WARNING

Make sure no obstacles are in the way of float switch, when it is in motion.

Please use handlebar to move or lift pump.
Please use a non-return valve in case pump is connected to fixed installation with rigid piping; this will avoid liquid circulating when pump has been turned off; it is advisable to install a quickly disconnecting connection on the delivery pipe to make it easier to disconnect the pump for cleaning and maintenance.
Please use flexible pipe connected to the pump by means of plastic fittings in case of temporary use of pump.
Use a rope to immerse pump and fasten it to pump's handlebar.
The automatic **PRATIKA®** model is equipped with a pre-set float switch (See fig.1) to change the adjustement increase or decrease the free piece of float switch cable by making it slide through the proper seat on the handlebar.
There can be particular requirements for pumps used in or next to pools, garden ponds or similar places.

CH. 4 ELECTRICAL CONNECTION

WARNING

Ensure tension and frequency of electropump (read plate) and power supply are same.

DANGER
Electric shock risk

Installer must make sure that electric current network has ground wire conforming to current laws.

DANGER
Electric shock risk

Make sure that electric current network is provided with a high-sensitivity circuit breaker Δ=30 mA (DIN VDE 0100T739).

Single phase version

Single phase pumps are equipped with plugs with double ground contact at top end of power supply cord; in this case grounding is done when plugging in.

Overload protection

Single phase **PRATIKA®** range pumps have a built-in thermal overload with automatic reset . Further protection devices are not required.

CONNECTION DIAGRAMS: **A)** Single phase pump without float switch
B) Single phase pump with float switch
See diagrams Fig.2

See Fig. 2

1) **START** (green)	5) **POWER SUPPLY CORD**	9) **WHITE**
2) **RUN** (red)	6) **GROMMET**	10) **LIGHT BLUE < LINE >**
3) **COMMON** (black)	7) **PLUG**	11) **BROWN < LINE >**
4) **CAPACITOR**	8) **YELLOW-GREEN**	12) **FLOAT SWITCH**

CH. 5 STARTING THE UNIT (See Fig. 1)

WARNING **Use the electropump for the type of uses listed on the plate.**

WARNING **Do not let electropump run dry, the hydraulic parts and seal could be damaged.**

WARNING **Do not run the electropump with the interception valve on delivery completely closed.**

Before starting the electropump, connect the pipe to the (1" ¼) delivery inlet, using the provided plastic fitting or other commercial pipe fittings.
Connections must be made so as to avoid losses.
Start the pump by inserting the plug in an appropriate outlet.

CH.6 MAINTENANCE AND TROUBLE SHOOTING

DANGER
Electric shock risk
Before doing any operation, make sure machine is disconnected from electric power supply.

DANGER
Electric shock risk
Power cord must be replaced by manufacturer or by Customer service, using special tools.

Under normal conditions electropumps in the **PRATIKA®** series do not need any maintenance**.**
Occasionally it may be necessary to clean the filter or other hydraulic parts.
If the electropump is not going to be used for long periods of time (e.g. an entire season) it should be emptied completely, rinsed with clean water and put in a dry place.

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Cleaning the filter

- if the water being drawn is not perfectly clean, it may be necessary to clean the pump using a steel brush to scrap accumulated dirt off the outer surface, afterwards, without dismantling the pump, rinse the filter with clean water.
  If this is not sufficient then clean the hydraulic parts.

Cleaning the hydraulic parts

- unscrew nuts holding the filter;
- in sequence remove the filter and suction flange;
- holding the impeller still, unscrew the locking nuts;
- remove the impellers and diffusors one at a time;
- by loosening the tie rods, it is possible to disassemble the delivery flange to gain access to the mechanical seal;
- carefully wash the parts;
- to assemble follow steps in reverse order.

PROBLEM	POSSIBLE CAUSE	REMEDY
THE ELECTROPUMP DOES NOT PUMP WATER THE MOTOR DOES NOT RUN	1) No power. 2) Motor protection tripped. 3) Defective condenser. 4) Shaft blocked.	1) Check if there is power and if the plug is plugged in properly. 2) Verify the cause and reset the switch. If the thermal has tripped wait until the system has cooled. 3) Replace the condenser. 4) Verify the cause and unblock the electropump.
THE MOTOR RUNS BUT THE ELECTROPUMP DOES NOT PUMP LIQUID	1) It is taking on air. 2) Wrong rotation direction. 3) Suction grate blocked. 4) Non return valve blocked.	1) - Make sure that the joints are airtight. - Check that the level of liquid has not dropped below the minimum priming level. 2) Reset the rotation direction. 3) Clean suction grate. 4) Clean or replace valve.
THE ELECTROPUMP STOPS AFTER RUNNING FOR A SHORT PERIOD OF TIME BECAUSE ONE OF THE THERMAL MOTOR PROTECTION DEVICES TRIPS	1) Power supply does not conform to data on plate. 2) A solid object is blocking the impellers. 3) The liquid is too thick.	1) Check the voltage on the power supply conductor cables. 2) Dismantle the electropump and clean it. 3) Change electropump type.

If the problem has not been eliminated after carrying out the above operations contact the closest service centre.